



National Information Exchange Model (NIEM)

**Overview and Status
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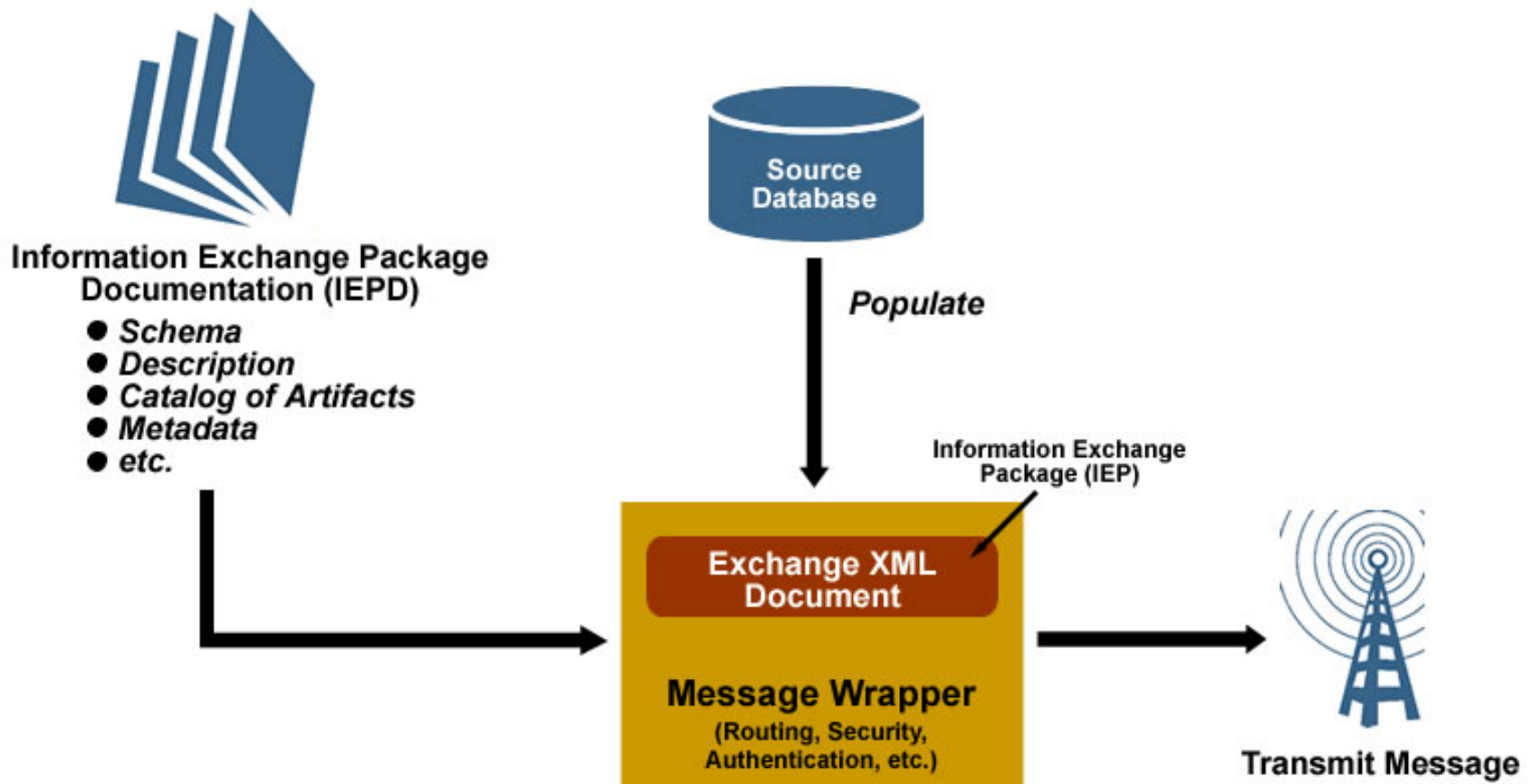


Agenda



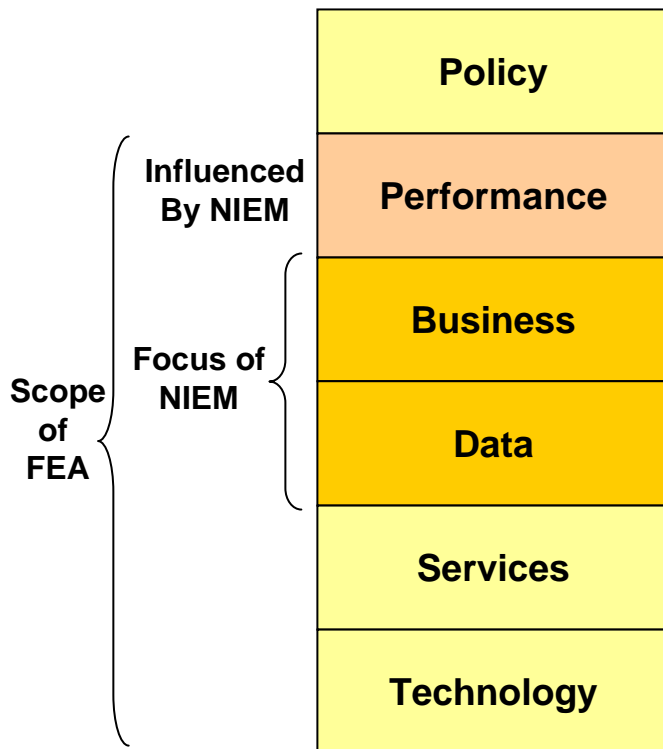
- Overview
- Scope
- Goals and Status
- High Level Architecture
- New MOU
- Deliverables
- Questions & Discussion

- NIEM was launched on February 28, 2005, through a partnership agreement between the U.S. Department of Justice (DOJ) and the U.S. Department of Homeland Security (DHS)
- NIEM brings Communities of Interest (COIs) together to:
 - Develop (and harmonize) reusable data exchange components
 - Leverage (NIEM and external) data exchange components to build information exchanges
 - Utilize cross COI governance to maximize inter-operability and reuse
 - Publish and discover reusable information exchanges
 - Provide standards, tools, methods, training, technical assistance and implementation support services for enterprise-wide information exchange



NIEM is Payload – Specifications for Data in Business Context

Information Exchange Architectural Profile



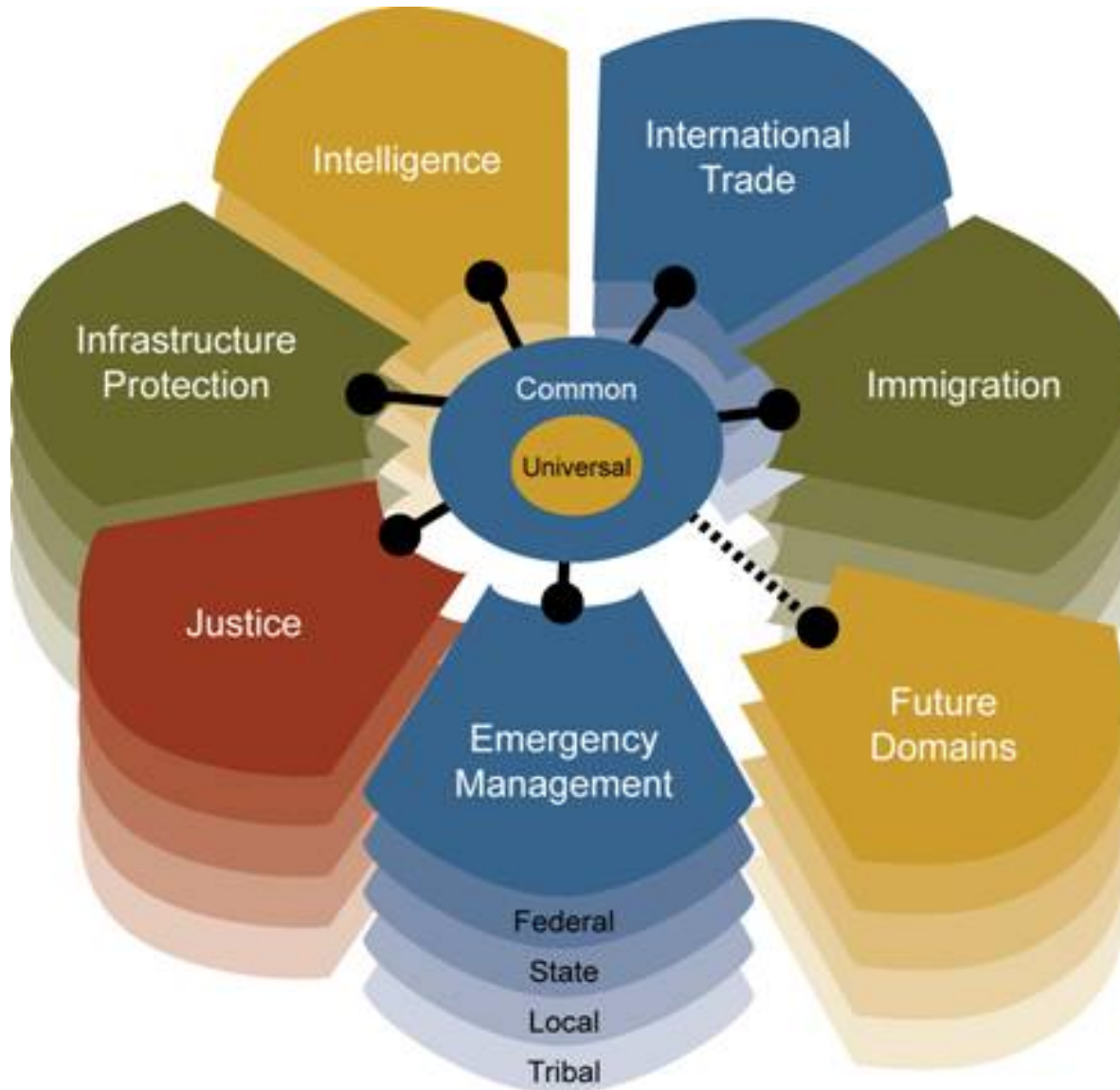
- **Business** – standard information exchanges
 - Focus on reuse and modification
 - Authoritative vs. non-authoritative
 - Discover / register exchanges via repository
- **Data** – *common vocabulary* for building information exchanges
 - Focus on reuse
 - Federated, hierarchical domain structure
 - Optional and over-inclusive augmentation
- **Performance** – measure information sharing
 - Use/reuse of information exchanges
 - Use/reuse of data components (in/out of model)
 - Line of sight provides actionable feedback

Goals and Status

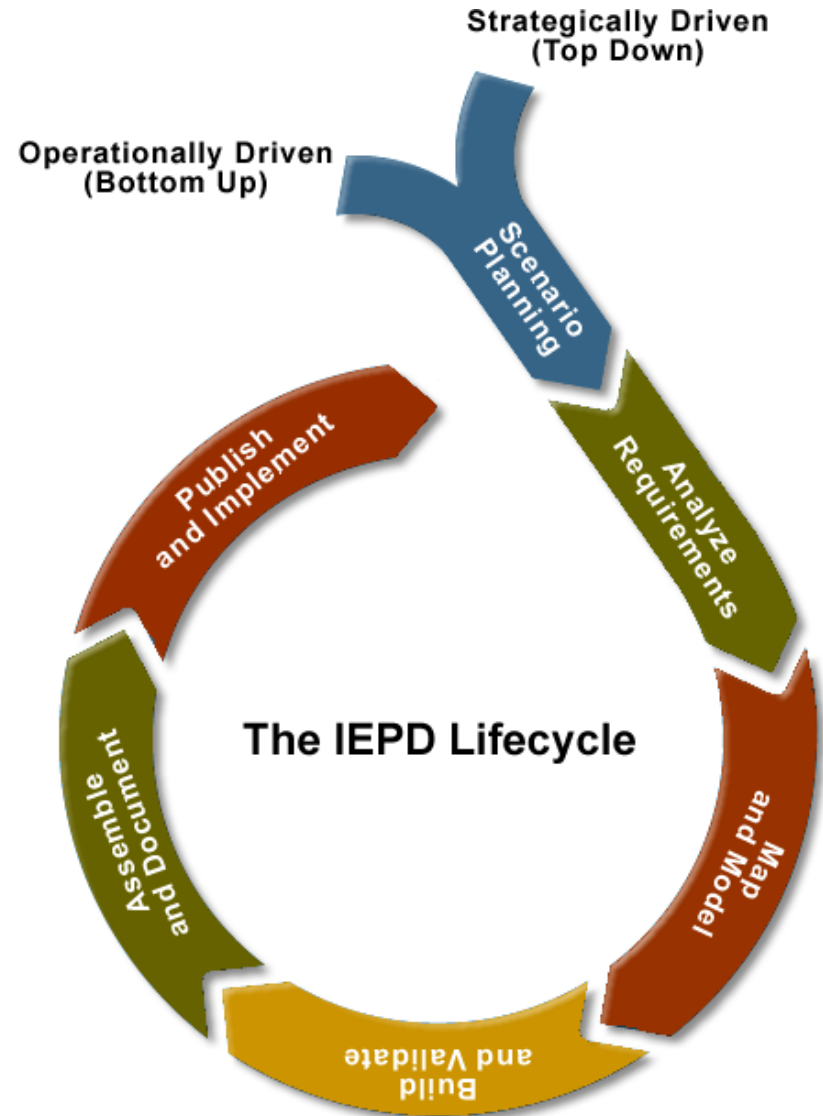


- Deliver NIEM
 - NIEM 1.0 (*Delivered October 2006*)
 - Currently working on NIEM Harmony Release (*Target Beta April 2007*)
 - Ramp-up governance, communications, and outreach activities (*Underway*)
- Catalyze NIEM adoption and usage with stakeholders
 - Migration of GJXDM installed base (*Underway*)
 - DOJ, DHS EA – NIEM is the standard for information exchange (*Done – Standard development underway*)
 - DOJ, DHS Grants – use of NIEM is a special condition (*Done*)
- Enable delivery of Common Terrorism Information Sharing Standards (*Target Phase 1 June 2007*)
- Deepen partnerships with communities of interest
 - Update and extend MOU to include DNI and Global Justice (*Underway*)
 - NIEM in the Federal Transition Framework (*Underway*)
- Become the standard, by choice, for government information exchange (*Future*)

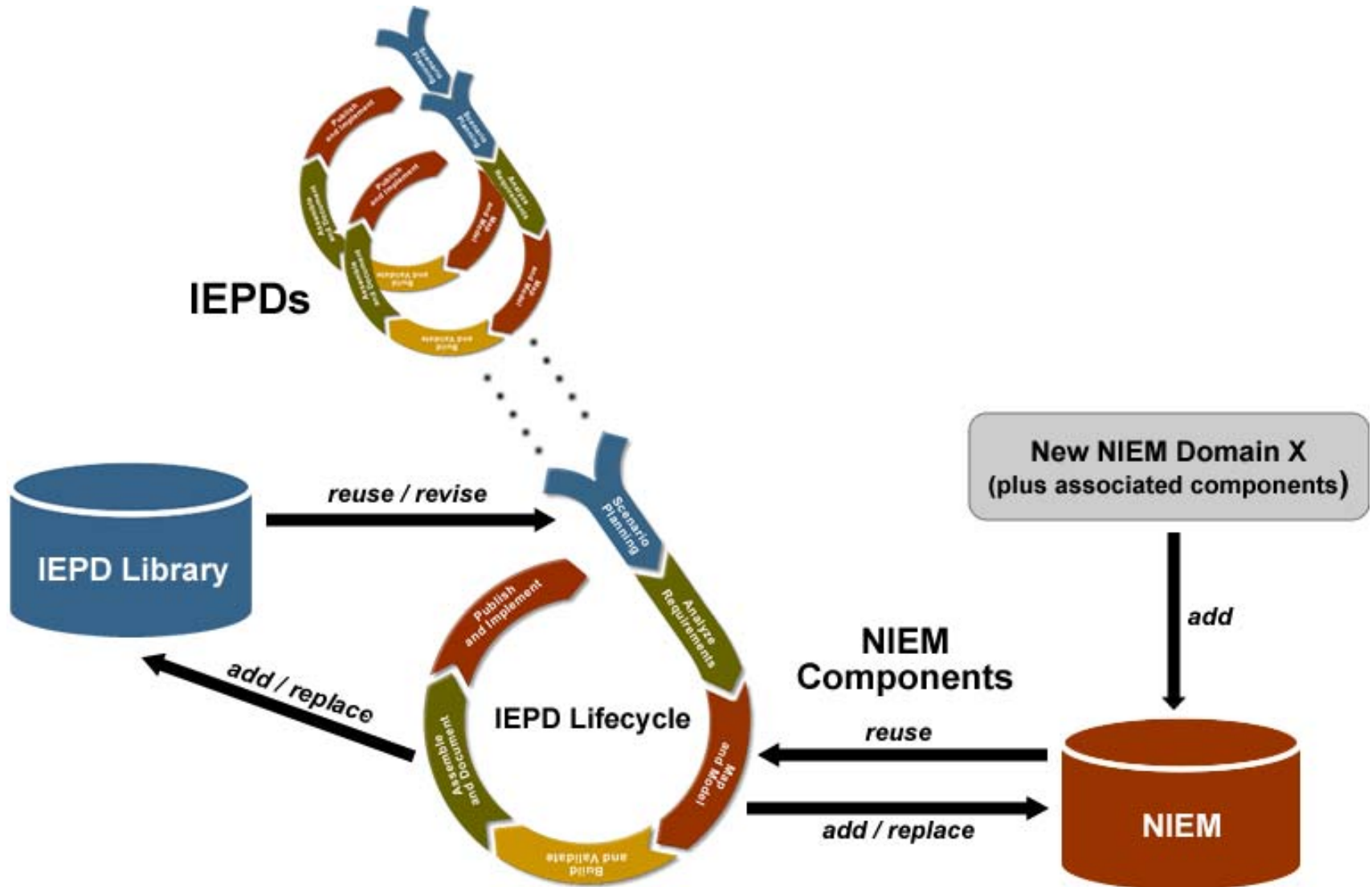
Federated Domain Architecture



- An Information Exchange Package (IEP) begins with a business need for a particular exchange.
- IEP Documentation (IEPD) describes how that exchange should be expressed using the NIEM.
- The IEPD is a key point for introducing new elements to NIEM and for reusing existing ones.
- An IEPD itself can also be reused in whole or in part to speed development and lower the cost of sharing information.



Data Model Maturity Lifecycle



Proposed New MOU



- Goal is to be the Magna Carta for Government Information Sharing
 - DHS and DOJ recommit, add DNI and Global Justice, as charter signatories
 - Ability for other like organizations to join in the future
- MOU Signatories Govern and Fund NIEM
 - Set strategy and policy, including targeting national priority exchanges
 - Provide key leadership personnel and hire/fire Executive Director
 - Commit to using NIEM as described in the Concept of Operations
 - Set target outcomes and insure adequate personnel and funding resources
- Sets the Foundation to:
 - Enable critical information sharing objectives for charter signatories
 - Moves the nation forward on our Government information sharing mandate

- **Documentation**
 - *Introduction to NIEM*
 - *Concept of Operations*
 - *User Guide*
 - *NIEM Naming and Design Rules*
- **Standards**
 - NEIM 1.0 / Harmony
 - Reference Exchanges
- **Training and Technical**
 - NIEM website
 - Training materials
 - Help desk
- **Tools**
 - Component Mapping Template
 - Schema Subset Generation Tool
 - Graphical Browser
 - Exchange Repository
- **Governance and Processes**
 - The structure to manage and maintain NIEM and the processes and procedures behind its operations.



Questions and Discussion



- For more information visit the NIEM web site (<http://www.niem.gov>)
- Contact NIEM by email at information@niem.gov